

Form PTO 1449
Rev. 7-80U.S. Department of Commerce
Patent and Trademark Office
LIST OF PRIOR ART CITED BY APPLICANT
(Use Several Sheets If Necessary)Atty. Docket No.
Mo-6884 / LeA 33,871Serial No.
10/030,928Applicant
Ernst Rudolf F. Gesing et alFiling Date
January 11, 2002Group
1625

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|--|-----------------|----------|--------------------------------------|------------------|-----------------------|-----------------------------|
| AA | | 5,149,356 | 09/22/92 | (Bel. to corresp. to EP Muller et al | 431,291) 71 | 90 | |
| AB | | 5,238,910 | 08/24/93 | (Bel. to corresp. to EP Muller et al | 425,948 & 504 | EP 431,291) 273 | |
| AC | | 5,241,074 | 08/31/93 | (Bel. to corresp. to EP Daum et al | 422,469 & 548 | EP 341,489) 263.8 | |
| AD | | 5,276,162 | 01/04/94 | (Bel. to corresp. to EP Muller et al | 422,469, 548 | EP 431,291, 263.4 | EP 425,948 & EP 341,489) |
| AE | | 5,300,480 | 04/05/94 | (Bel. to corresp. to EP Haas et al | 534,266) 504 | 273 | |
| AF | | 5,380,863 | 01/10/95 | (Bel. to corresp. to EP Muller et al | 422,469, 548 | EP 431,291 & 263.6 | EP 425,948) |
| AG | | 5,380,864 | 01/10/95 | (Bel. to corresp. to EP Muller et al | 425,948 & 548 | EP 431,291) 263.8 | |
| AH | | 5,405,970 | 04/11/95 | (Bel. to corresp. to EP Daum et al | 422,469 & 548 | EP 341,489) 263.6 | |
| AI | | 5,488,028 | 01/30/96 | (Bel. to corresp. to EP Haas et al | 534,266) 504 | 193 | |
| AJ | | 5,532,378 | 07/02/96 | (Bel. to corresp. to EP Daum et al | 422,469 & 548 | EP 341,489) 263.8 | |
| AK | | 5,534,486 | 07/09/96 | (Bel. to corresp. to EP Muller et al | 507,171) 504 | 273 | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|----|--|-----------------|----------|---------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| AL | | * 0 482 349 | 04/29/92 | Europe | | | | |
| AM | | * 97 03980 | 02/06/97 | World | | | | |
| AN | | * 98 24787 | 06/11/98 | World | | | | |
| AO | | * 97 16449 | 05/09/97 | World | | | | |
| AP | | * 0 341 489 | 11/15/89 | Europe | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|--|---|
| AR | | Austr. J. Chem., 48 (month unavailable) 1995, pgs. 1907-1916, The Synthesis and Biological Activity of 'Crippled Biotin' by S. A. Henderson, J. O'Connor, A. R. Rendina, G. P. Savage and G. W. Simpson |
| AS | | J. Org. Chem., 1980, 45, (month unavailable) pgs. 617-620, Aromatization of Dihydrothiophenes. Thiophensaccharin: A Sweet Surprise by P. A. Rossy, W. Hoffmann, and N. Muller |
| AT | | |

EXAMINER

DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

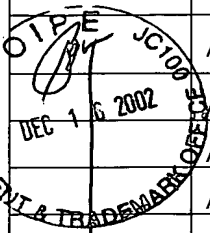
* Copies of documents previously submitted by WIPO.

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| Form PTO 1449 Rev. 7-80 U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary) | Atty. Docket No. Mo-6884 / LeA 33,871 | Serial No. 10/030,928 |
| | Applicant Ernst Rudolf F. Gesing et al | |
| | Filing Date January 11, 2002 | Group 1625 |

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|--|----|-----------------|----------|--------------------------------------|------------------|-----------------------|-----------------------------|
|  | AA | 5,541,337 | 07/30/96 | (Bel. to corresp. to EP Muller et al | 507,171) 548 | 263.6 | |
| | AB | 5,554,761 | 09/10/96 | (Bel. to corresp. to EP Haas et al | 422,469 & 548 | EP 534,266) 263.6 | |
| | AC | 5,597,939 | 01/28/97 | (Bel. to corresp. to EP Muller et al | 507,171) 558 | 8 | |
| | AD | 5,599,944 | 02/04/97 | (Bel. to corresp. to EP Muller et al | 422,469, 548 | EP 425,948 & 263.6 | EP 431,291) |
| | AE | 5,625,074 | 04/29/97 | (Bel. to corresp. to EP Daum et al | 422,469 & 548 | EP 341,489) 263.8 | |
| | AF | 5,631,380 | 05/20/97 | (Bel. to corresp. to EP Haas et al | 422,469, 548 | EP 534,266 & 263.4 | EP 341,489) |
| | AG | 5,652,372 | 07/29/97 | (Bel. to corresp. to EP Muller et al | 507,171, 548 | EP 422,469 & 263.4 | EP 341,489) |
| | AH | 5,750,718 | 05/12/98 | (Bel. to corresp. to EP Muller et al | 422,469, 548 | EP 341,489, 263.6 | EP 431,291 & EP 425,946) |
| | AI | 5,869,681 | 02/09/99 | (Bel. to corresp. to EP Muller et al | 507,171) 548 | 263.6 | |
| | AJ | | | | | | |
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* Neither English Language Equivalent nor an English Language Translation is available.

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| Form PTO 449 Rev. 7-80 | U.S. Department of Commerce Patent and Trademark Office | Atty. Docket No. Mo-6884 / LeA 33,871 | Serial No. 10/030,928 |
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|---------------------|----|-----------------|----------|--|------------------|----------|-------------------------------|
| <i>[Signature]</i> | AA | 4,180,662 | 12/25/79 | (Bel. to corresp. to EP Pfister et al | 1,113) 544 | 48 | |
| | AB | 6,200,931 B1 | 03/13/01 | (Bel. to corresp. to WO Müller et al | 98/07721) 504 | 223 | |
| | AC | | | | | | |
| | AD | | | | | | |
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